instructions for installation and operation of

REK-O-KUT

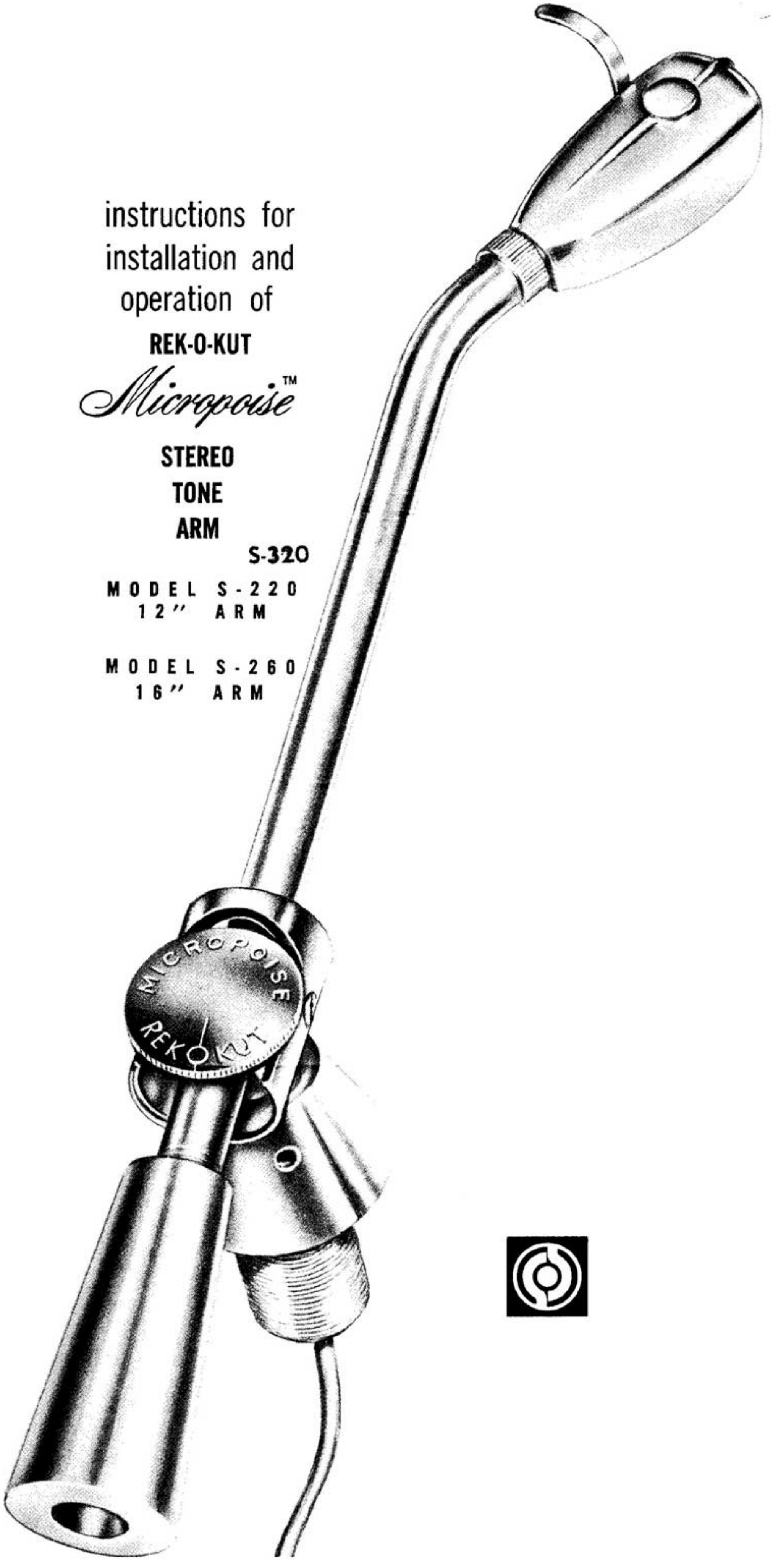
Micropoise™

STEREO TONE ARM

S-320

MODEL S-220
12" ARM

MODEL S-260
16" ARM



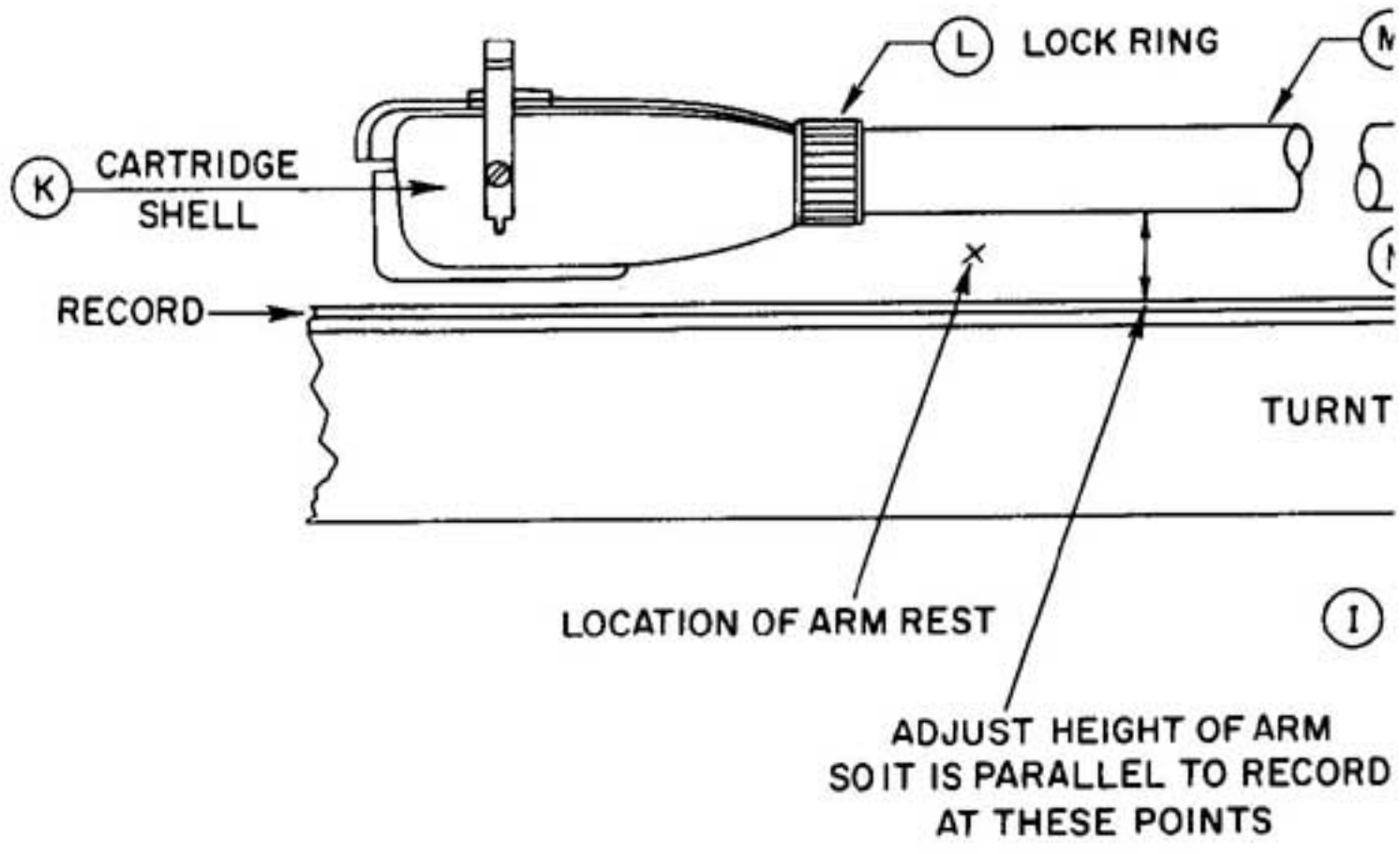


Fig. 2

The Micropoise with tracking balance, represents the finest stereo tonearm available. Constructed to mount simply and track correctly. REK-O-KUT craftsmanship has provided perfection in tonearm design without resorting to complex adjusting procedures.

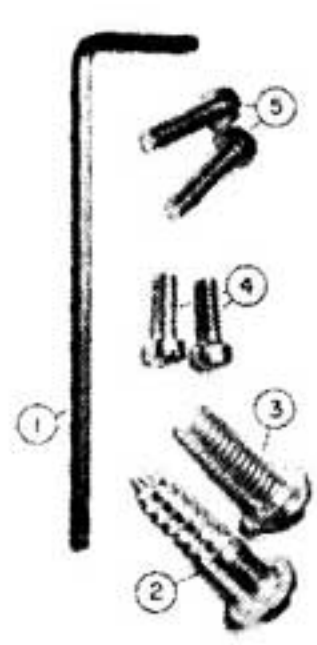
This instruction booklet should be read carefully. With a full understanding of the installation and operation of your Micropoise tonearm, the finest in sound reproduction is awaiting you.

SECTION I - UNPACKING

Your Micropoise tonearm and mounting hardware are packed in the special container shown in Fig. 1. This plastic parts container is located under cartridge shell (K). The arm rest assembly, and the parts package have been diagramed to indicate the various pieces contained in the package.

The parts package contains the following:

one - Allen Wrench (1)
one - #8-3/4" round head wood screw (2)
one - 8/32 × 1/2" round head machine screw (3)
two each 3/48 × 1/4" Fillester head brass machine screws (4)
two each 3/48 × 3/8" Fillester head brass machine screws (5)



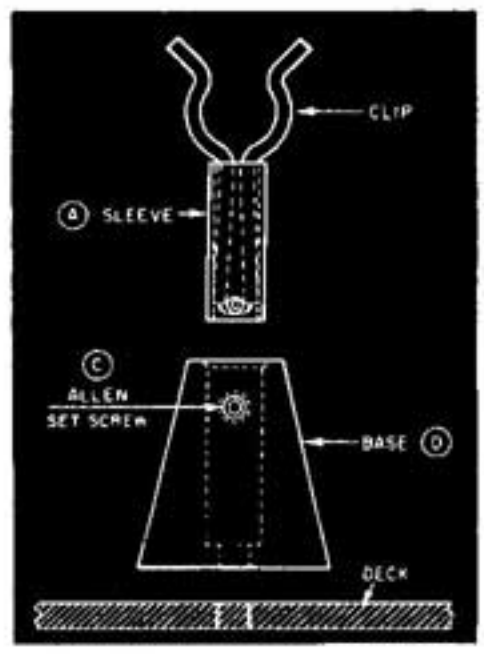
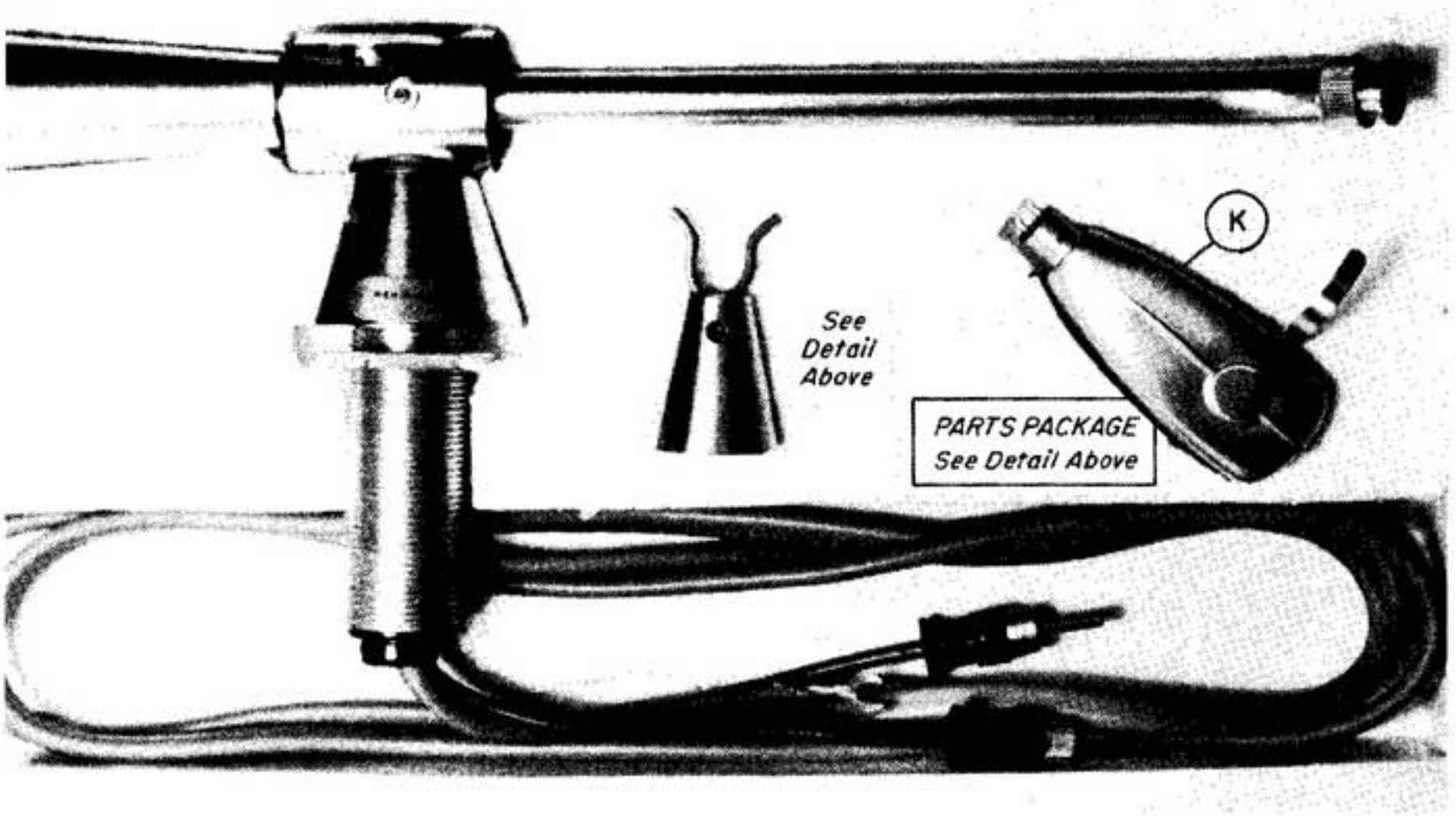
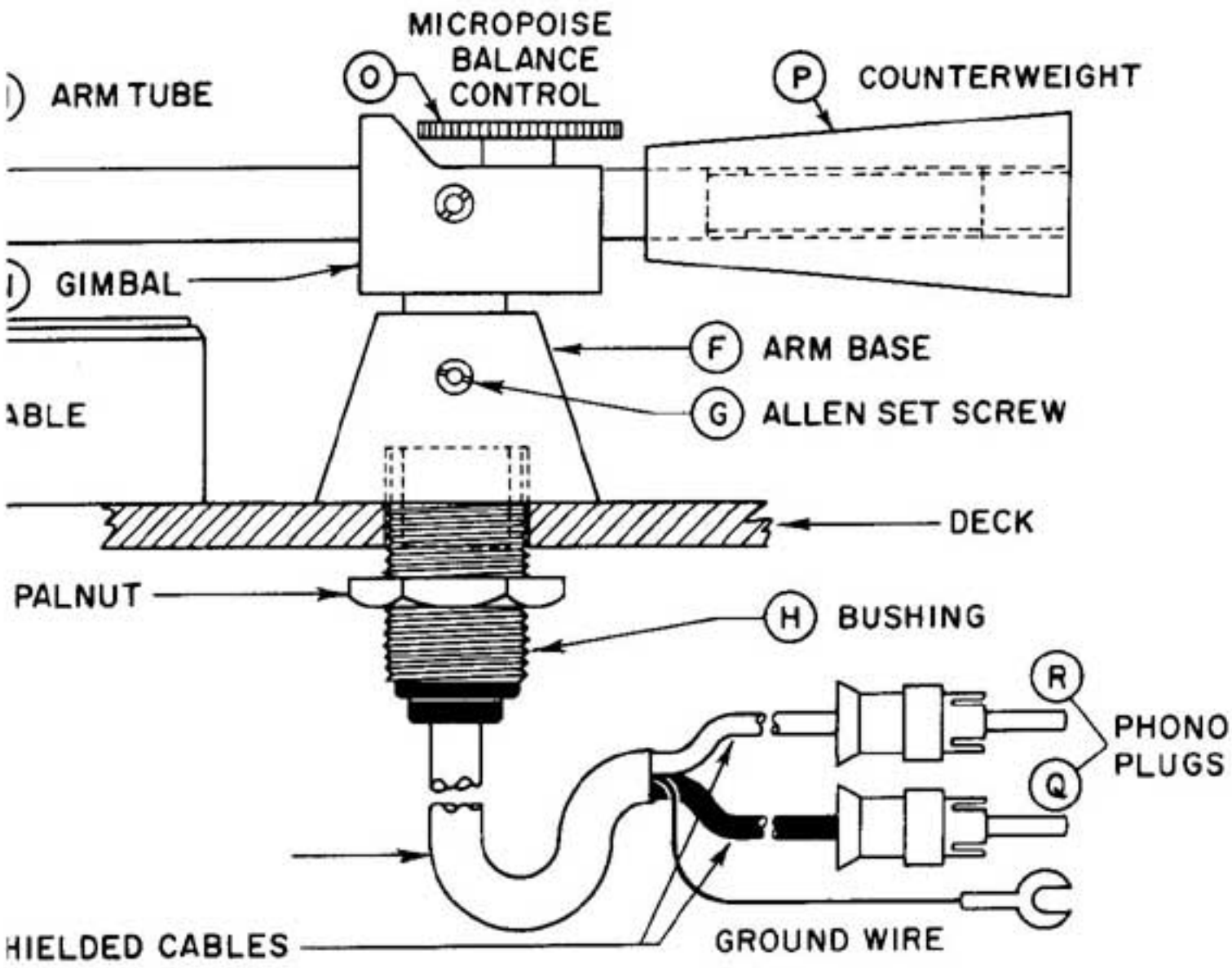


Fig. 1





Before starting the installation of your Micropoise tonearm, remove all mounting hardware from the plastic container.

SECTION II - INSTALLING THE ARM REST

The arm rest is required to provide proper arm support when the tonearm is not in use. The arm rest is positioned on the turntable deck so that the tonearm tube (M) rests within the clip located at the top of the arm rest. To prevent stylus or cartridge damage, the tonearm should never be left out of the arm rest when not in use.

The Stereotables B-12, B-12H, B-12GH, N-33H, and N34-H, have a predrilled armrest hole properly positioned on the deck.

1- Remove arm rest assembly from the packing container.

2- Insert Allen Wrench (1) into Allen Screw (C) on the base of the arm rest assembly. Loosen the Allen Set Screw.

3- Grasp the clip at the top of the arm rest assembly and gently pull upward. Sleeve (A) will slide out of the arm rest base. Place the sleeve to one side for future use.

4- Position arm rest base (D) so that the center hole in the base is over the tapped hole in the deck. Insert machine screw (#3) through base (D) and tighten into threaded hole. To align the screw with the threaded hole, hold screw down with narrow bladed screw driver with one hand, and lift base (D) a short distance above the deck with the other hand. The screw threads will protrude below the bottom of the base allowing you to move the base so that the screw threads align themselves with the threaded hole. When proper physical positioning is accomplished, tighten screw (#3) firmly mounting the arm rest base to the deck. Be sure that in the final tightened position, the Allen Screw (C) in the base is facing the outside edge of the deck.

5- Reinsert sleeve (A) into the base and tighten Allen Screw (C) lightly. Final adjustment of sleeve height will be made after installation of tone arm.

NOTE:

When the arm rest is to be mounted on a wooden deck, the same procedure outlined in items 1 through 5 should be followed, with the only exception being that the wood screw (#2) should be substituted for the machine screw (#3). The proper position of the arm rest, in the absence of a predrilled hole, can be selected by referring to diagram #9 in this instruction booklet.

SECTION III - MOUNTING TONE ARM

The model S-220 Micropoise tonearm is designed to be mounted directly to Stereotables B-12, B-12H, B-12GH, N-133H and N-34H. These REK-O-KUT turntable decks have

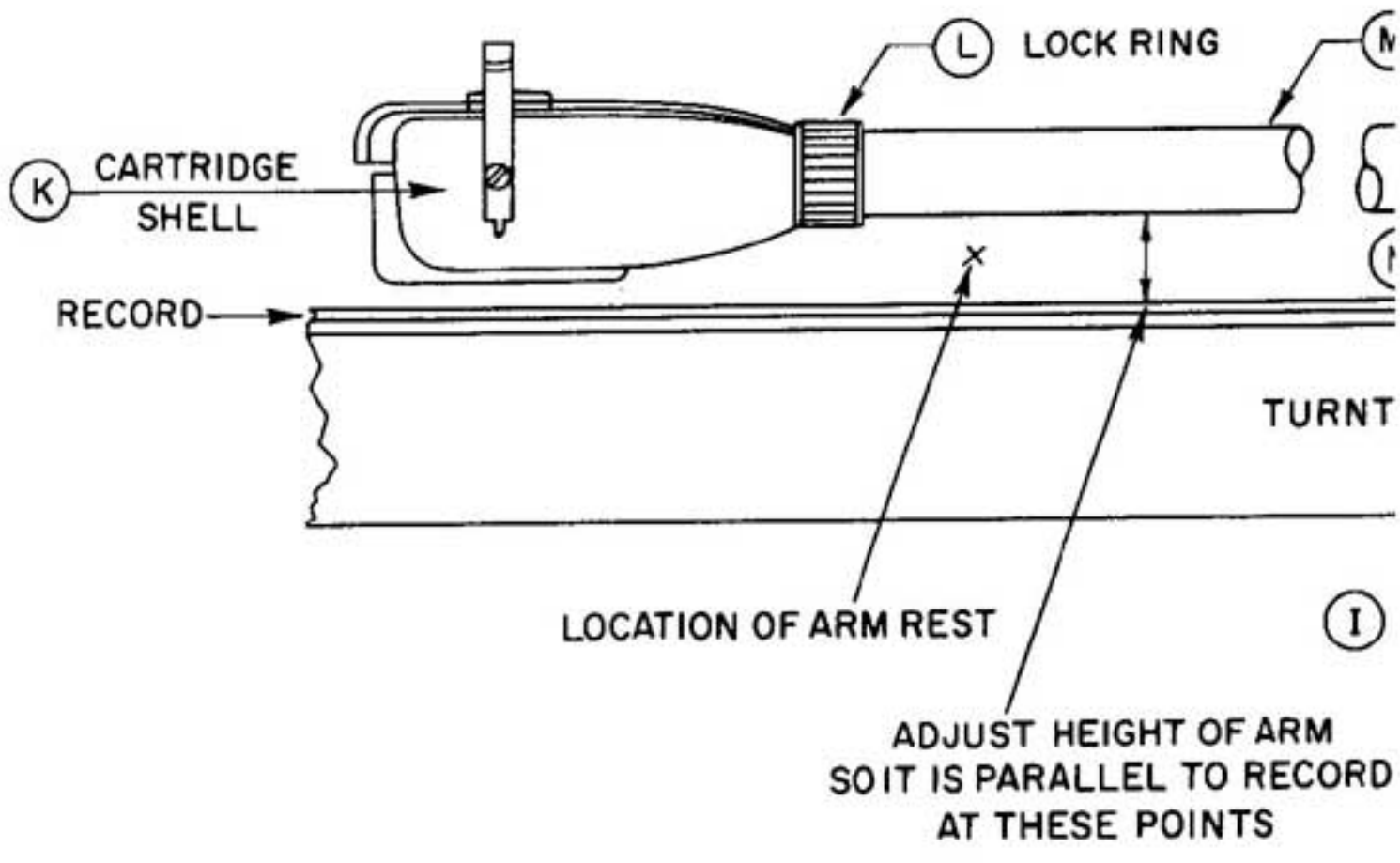


Fig. 2

J S

been predrilled to accept the tonearm by following this procedure:

1- Remove snap cover located at top right rear of turntable deck exposing the 7/8 inch tonearm mounting hole.

2- Remove pal nut (I) by unscrewing from the tonearm bushing (H). (See Fig. 2.)

3- Insert bushing into the hole by first pushing the plug-in cables (J) through the hole one at a time and then pushing bushing (H) into hole. Firmly seat tonearm base (F) so that it is flush with the turntable deck. The tonearm base should be positioned so that Allen Set Screw, item (G), faces the outer edge of the deck.

4- Slide pal nut (I) over the plug-in cables. Passing the plug-in cables through the pal nut one at a time, thread the pal nut on to bushing (H) and tighten securely against bottom of the deck. This nut is not attached until the tonearm base is revolved in a position so that the stop in the base does not allow the tonearm to swing beyond the center of the turntable.

SECTION IV - INSTALLING CARTRIDGE SHELL

The cartridge shell (K) has been removed from tonearm at the factory, for packaging. (Fig. 1.) The cartridge shell has been designed to accept practically every cartridge produced. Most cartridges are supplied with mounting screws. In addition, REK-O-KUT designers have provided two separate sets of cartridge mounting screws in the parts package which are capable of accommodating every type of cartridge in the shell (items 4 and 5). For deep bodied cartridges use item 5 which is the longer of the two sets of brass mounting screws. For shallow-body cartridges, use item 4.

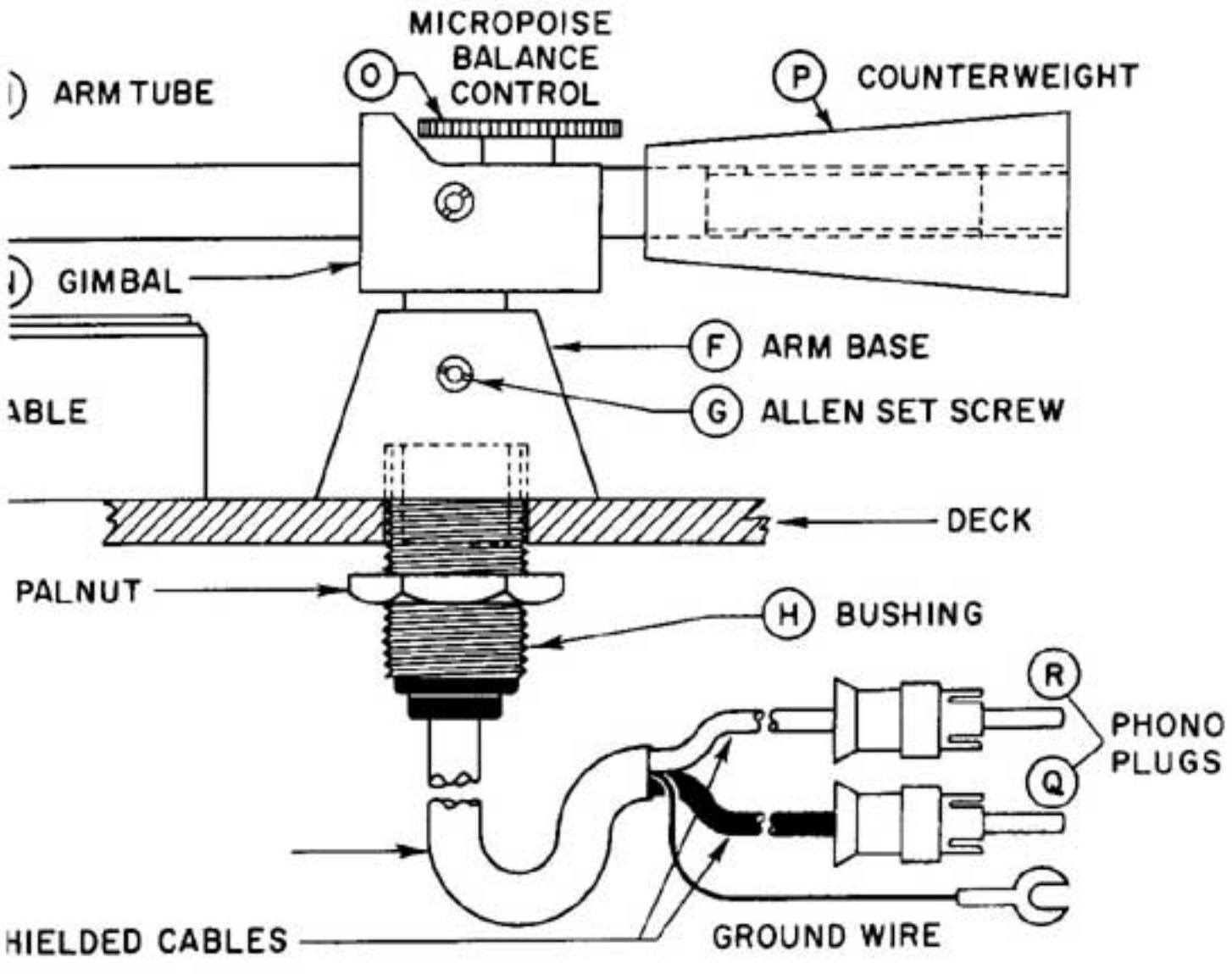
INSTALLING THE STEREO CARTRIDGE

The coding of the terminal pins on the various cartridges has not as yet been standardized by the industry. It is therefore necessary to follow the instructions provided by the manufacturer of the cartridge regarding which terminal pin should be connected for proper cartridge operation.

The REK-O-KUT color coding of the connecting wires are as follows:

White and Black - Left channel
- - Black phono cable (Q, Fig. 2)
Blue and Brown - Right channel
- - Red phono cable (R, Fig. 2)
Blue and White wires are the "hot" leads.

Fig. 3 - A - B - C show the typical connection of a three terminal stereo cartridge, a four terminal stereo cartridge, and a monophonic cartridge. The actual connecting terminals on the cartridge should be selected by referring to the instructions provided by the cartridge manufacturer.



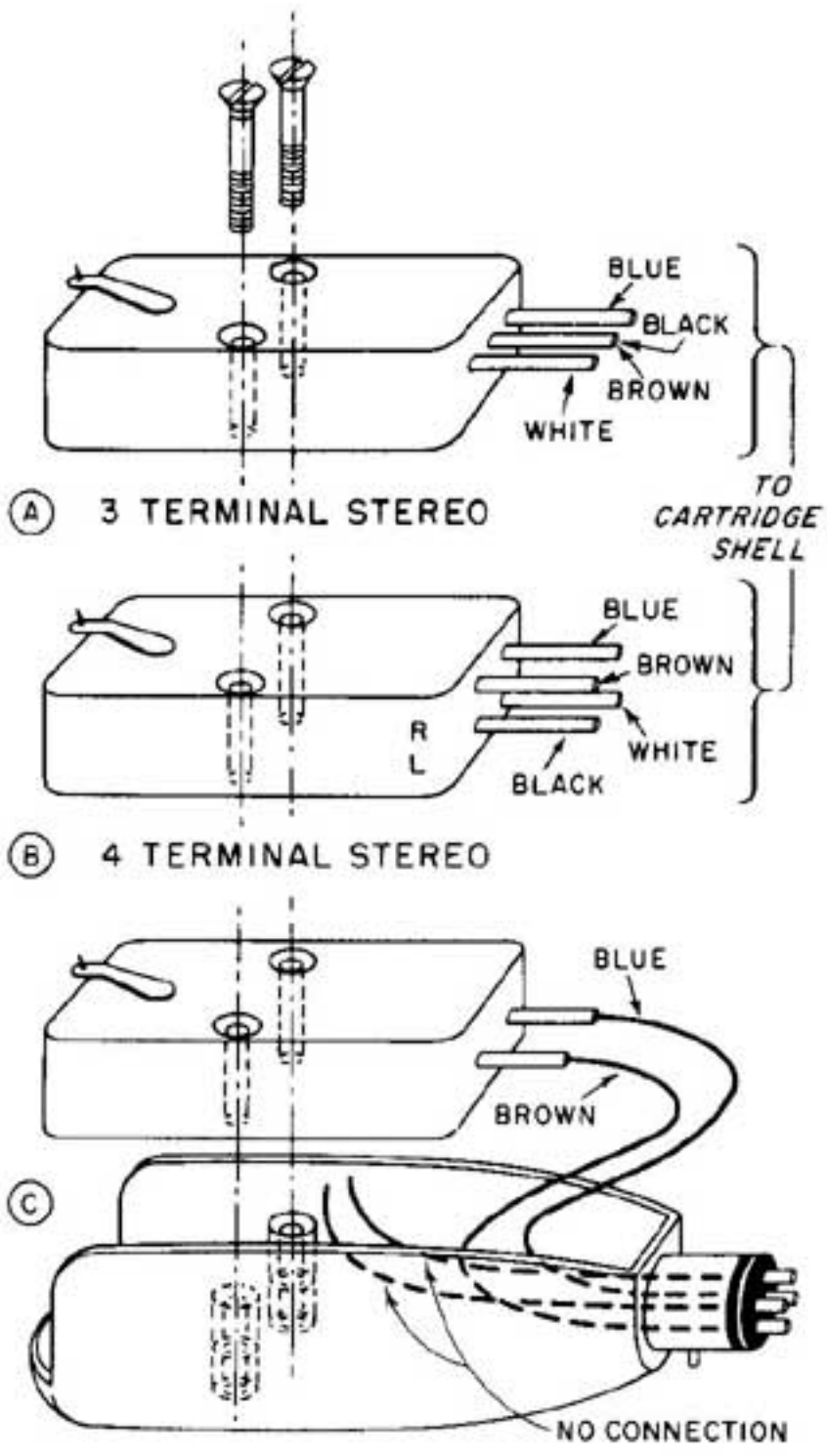


Fig. 3

SECTION V - INSTALLING CARTRIDGE SHELL TO TONEARM

1- Slide the cartridge shell with the cartridge mounted to it on to the tonearm tube.

2- The alignment pin located on the cartridge shell should slide into the slot provided for it on the tonearm tube (Fig. 4).

3- Gently push the cartridge shell into the tonearm until it is securely engaged.

4- Slide the Locking Ring (L) up the tonearm tube until it contacts the cartridge shell. (Fig. 2).

5- Tighten the locking ring by rotating the ring counter clockwise. Finger tightness is sufficient.

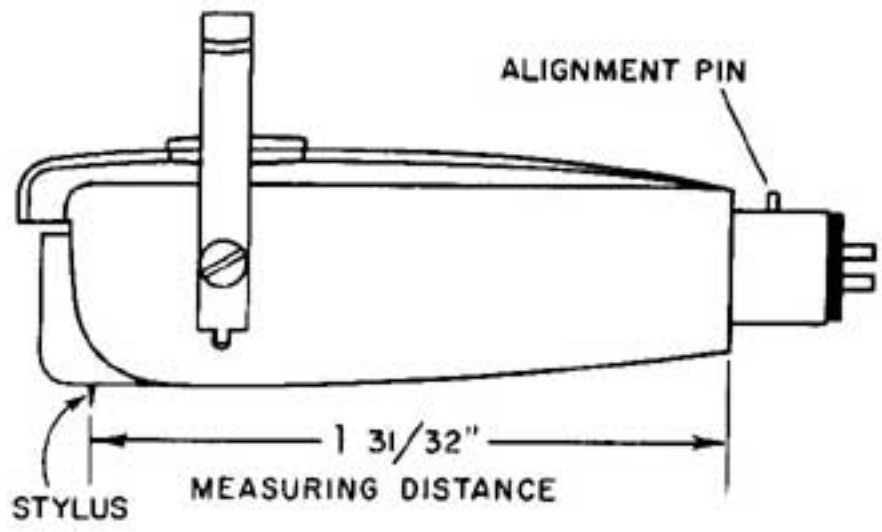


Fig. 4

NOTE:

For proper tracking on REK-O-KUT turntables, the overhang of the cartridge must be a fixed distance. Fig. 4 indicates the proper measurements to allow for cartridge overhang. Most cartridges are constructed so the overhang distance is fixed by the cartridge mounting holes when installed in a REK-O-KUT tonearm. Some cartridge manufacturers, however, have not standardized on the overhang distance. In these cases, it is necessary to obtain cartridge mounting kit KT-126 from your REK-O-KUT dealer. This kit consists of a cartridge bracket with slotted holes which allows the cartridge to be moved forward or backward until proper overhang is accomplished.

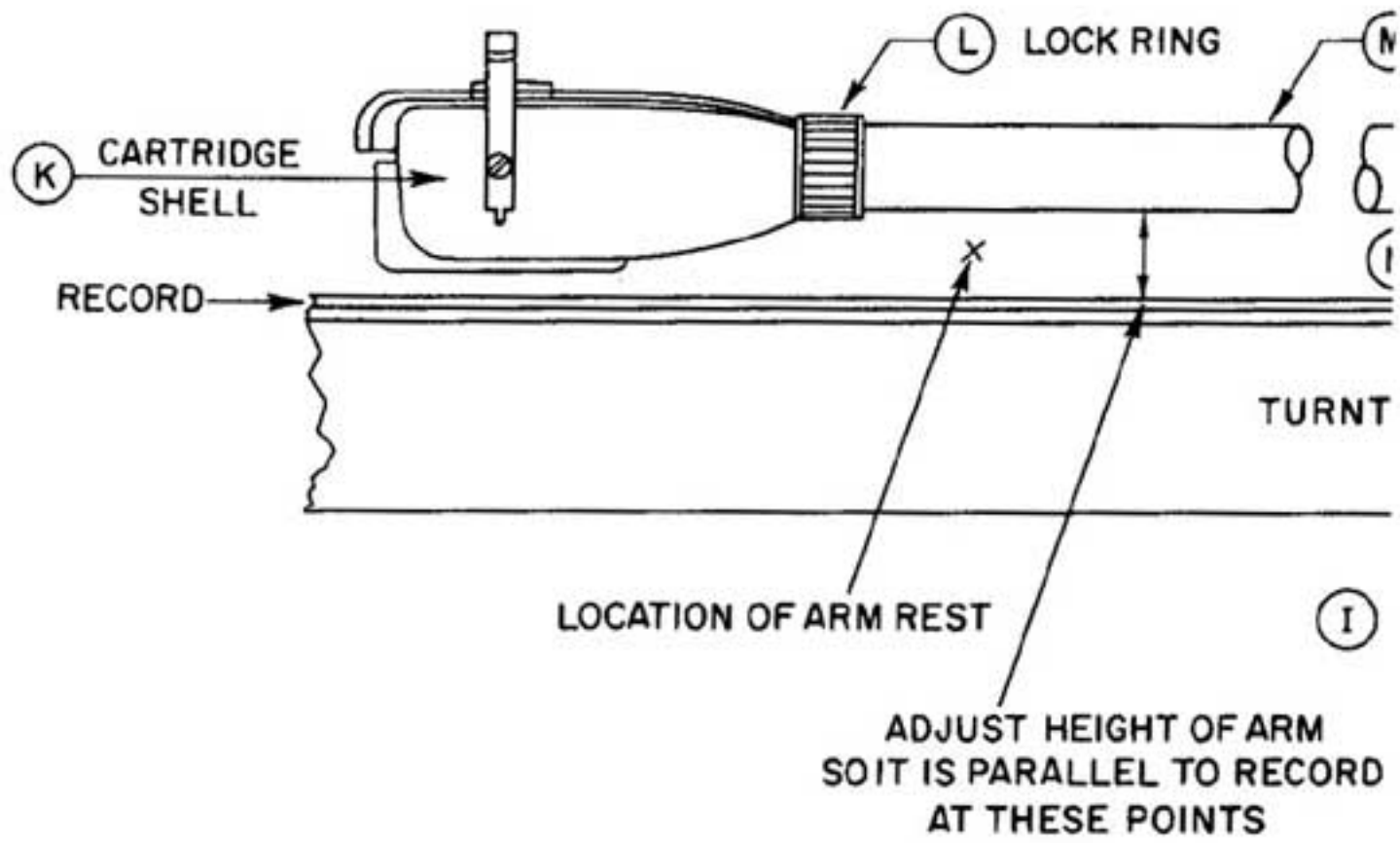


Fig. 2

J S

SECTION VI - CONNECTING THE TONEARM WIRES TO AMPLIFIER

The Micropoise tonearm has been designed to facilitate the electrical connection of the tonearm to the amplifier in the simplest manner. Connecting cable (J) contains two completely shielded connecting wires and one ground wire. The cartridge connecting cables are prewired to a standard phono plug (R and Q) facilitating the direct connection of the cables to the amplifier without the need for soldering. The ground wire is equipped with a spade lug for installation under any grounding screw of the preamplifier chassis. (See Fig. 5.)

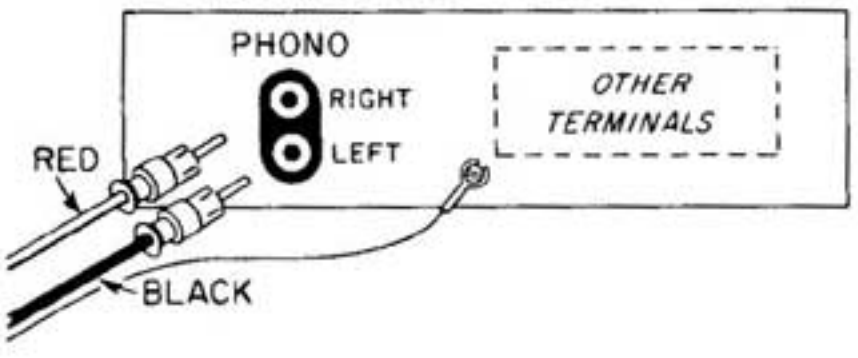


Fig. 5

STEREO CONNECTION

Each of the stereo channels in the cartridge is connected through the tonearm wiring to a separate cable. Each cable is color coded for proper connection to the stereo input jacks on the amplifier. The red cable is connected into the right stereo amplifier input, and the black cable is connected into the left stereo amplifier input.

MONOPHONIC CONNECTION

When the Micropoise tonearm is used with a monophonic cartridge, connect only one pair to the terminals on the cartridge. (See Fig. 3c). It is therefore necessary to plug only one cable into the amplifier. The other cable should be

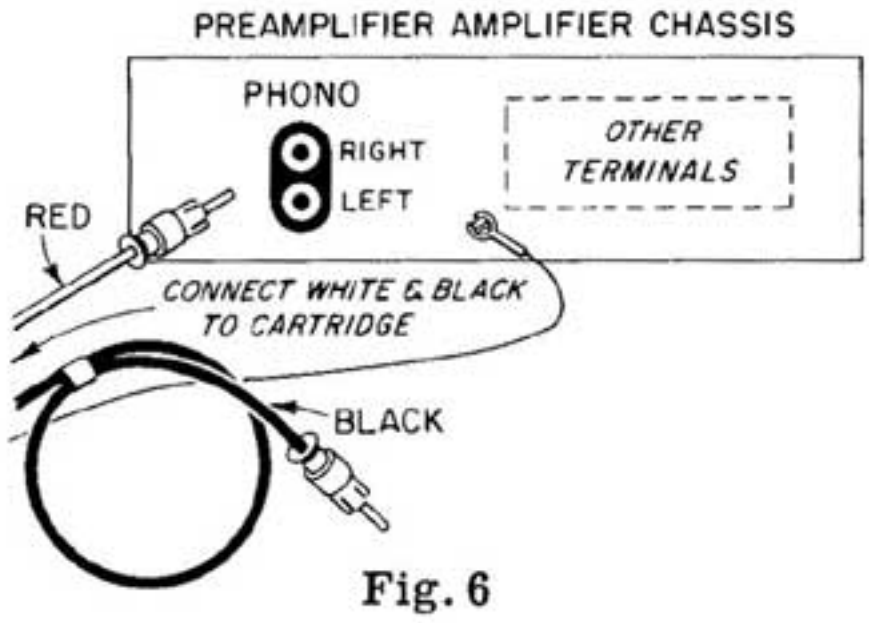


Fig. 6

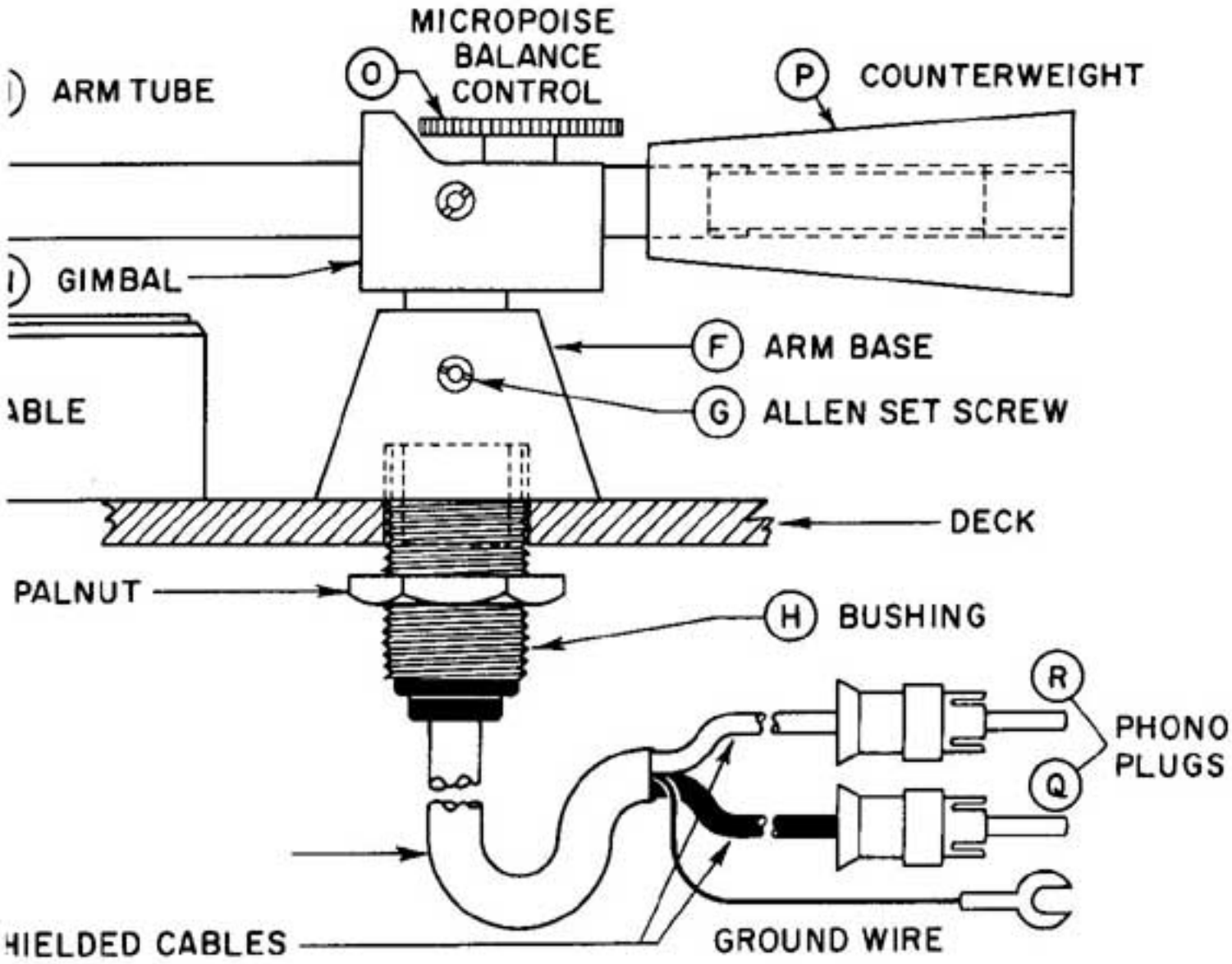
shortened by placing a loop in the cable. (See Fig. 6). This cable should be left floating free with extreme care taken to prevent the unused plug from touching any part of the turntable deck or amplifier.

SECTION VII - ADJUSTING TONEARM HEIGHT

With the cartridge installed and the shell assembled to the tonearm, we are now ready to adjust for the proper height of the tonearm. For good sound reproduction and proper tracking it is essential that the tonearm be parallel to the record surface.

1- Place a record on the turntable (See Fig. 2).

2- For proper tracking results, the tonearm tube (M) must be paral-



lel with the surface of the record. Place the tonearm so that the cartridge stylus is resting in a groove on the record.

3- To adjust tonearm height for parallel operation, loosen Allen Screw (G) which is located in the arm base (F).

4- Grasp the gimbal and lift the entire tonearm until the tonearm is parallel with the turntable. Use a ruler to check the accuracy of the spacing between the tonearm and the turntable at least two places.

5- After proper adjustment, tighten the Allen Screw (G) being sure that the arm height does not change during tightening. Finger tightness is sufficient.

6- The arm rest sleeve should be firmly adjusted in a similar manner to hold the tonearm tube at the proper height.

SECTION VIII - ADJUSTING THE STYLUS PRESSURE

For proper record wear, stylus life and sound reproduction, the amount of weight placed by the stylus on the record is important. Since the amount of weight is a function of the cartridge used, the pressure on the stylus must be individually adjusted after cartridge installation. The Micropoise arm takes the guess-work out of stylus pressure adjustment with the easily adjustable counterweight (P) and the new Micropoise Balance Control (O), with reference line centered through the knob's letter "O" in REK-O-KUT.

1- Rotate the tracking balance control knob (O) fully counter-clockwise before adjusting the counterweight (P).

2- Rotate the counterweight either forward or backward until the arm floats just above the record surface. A movement of the counterweight away from the cartridge will tend to raise the arm while a movement of the counterweight toward the cartridge will tend to lower the arm.

NOTE:

In the event proper balance can not be achieved by movement of the counterweight, the brass weight located in the cartridge shell should be removed. A heavy cartridge will not balance until the brass weight is removed. Remove snap cover at top of cartridge shell (Fig. 7) and remove brass weight. Replace snap cover.

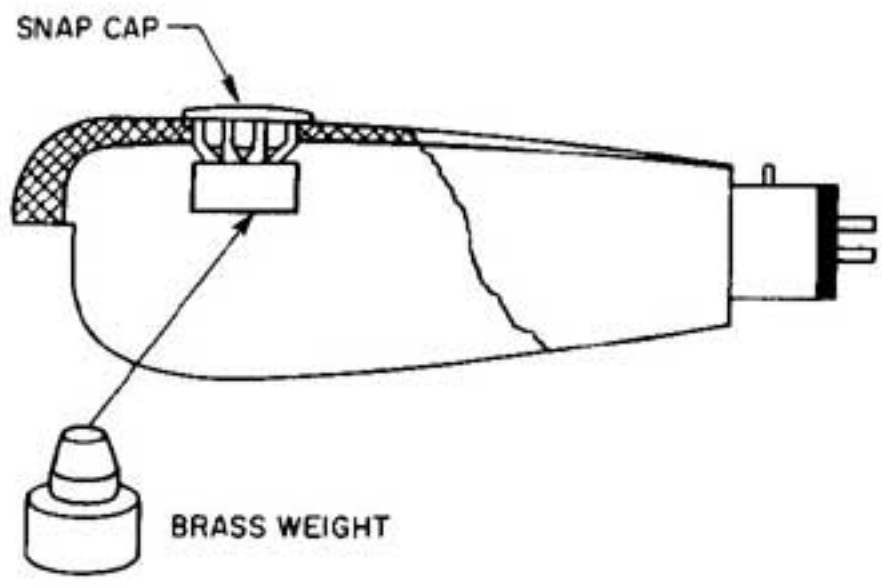


Fig. 7

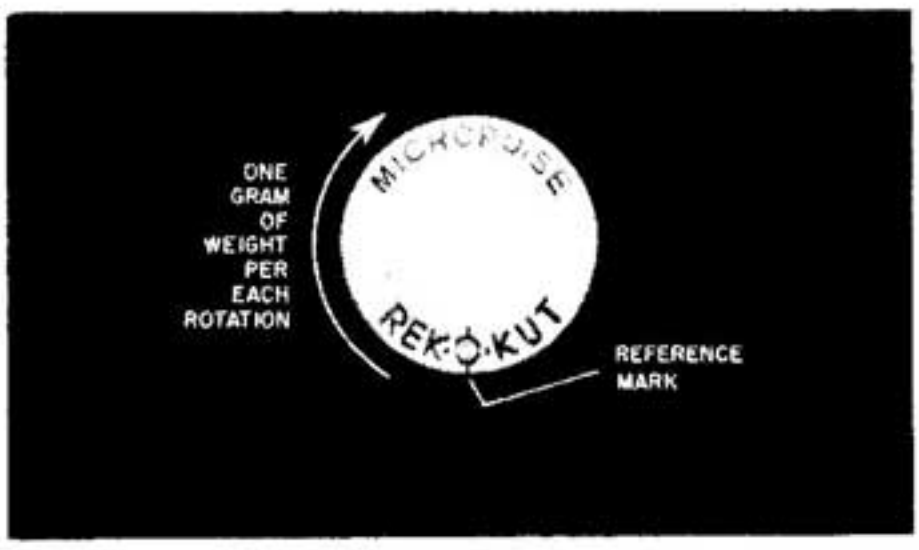


Fig. 8

3- The Micropoise balancing adjustment has been designed so that the first rotation of the knob clockwise produces no change in weight on the stylus (O grams of stylus pressure). Each succeeding full rotation provides one gram of weight on the stylus. Proper stylus pressure, as recommended by the cartridge manufacturer, can be achieved by rotating the Micropoise Control the proper number of turns clockwise. (Fig. 8).

SECTION IX - MOUNTING TONEARM TO OTHER TURNTABLES

The location of the arm rest and the hole for the tonearm bushing is critical. Fig. 9 indicates the proper location of these holes. The only precaution needed is to allow for sufficient space providing freedom of arm movement in the area selected. Be sure to provide for stylus overhang beyond the center of the turntable as provided in Section V.

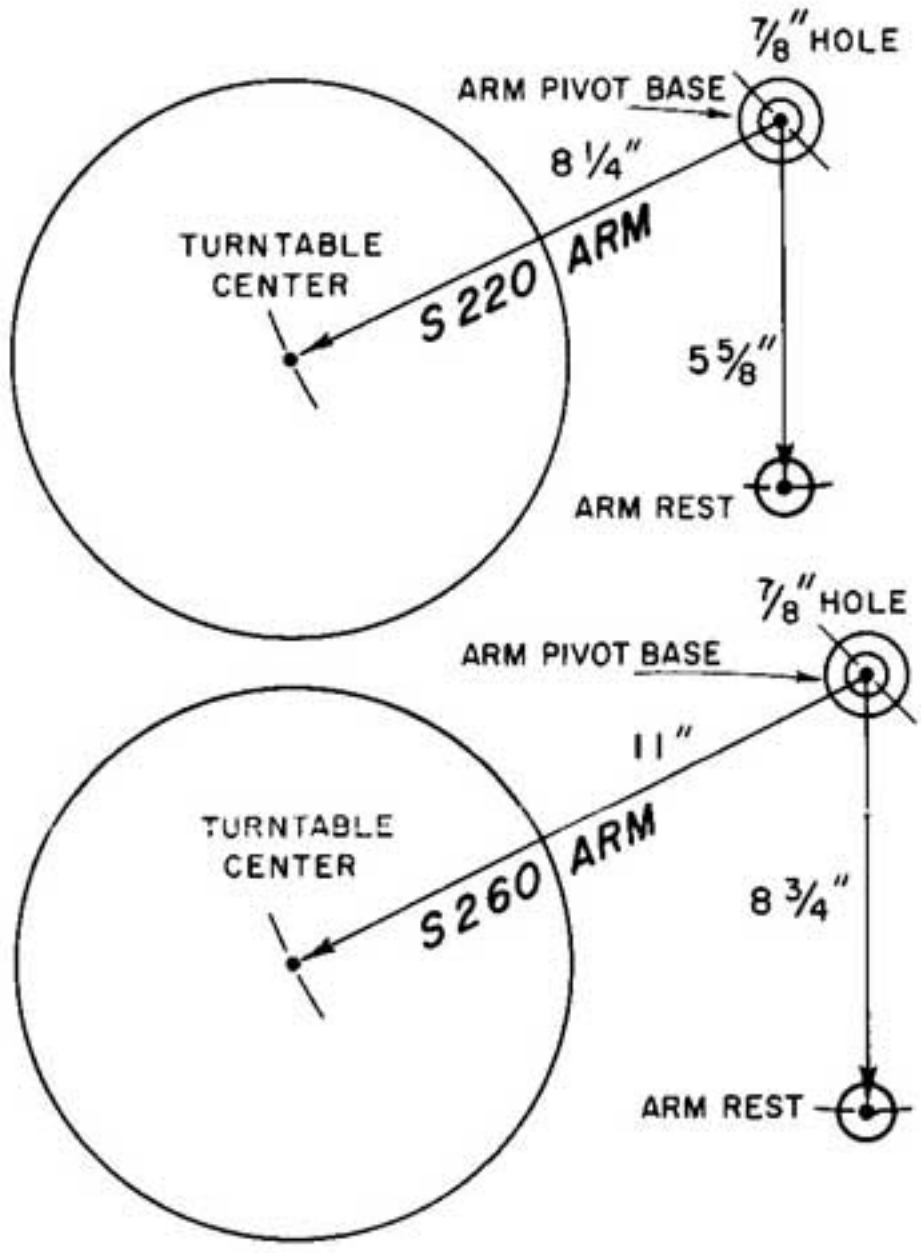


Fig. 9

Follow all other steps in the mounting of the tonearm and cartridge pressure adjustments as outlined for REK-O-KUT turntables.

FACTORY WARRANTY

We Warrant each new unit to be free from defects in material and workmanship under normal use and service, our obligations under this warranty being limited to making good at the factory any part or parts thereof which shall, within three (3) months after delivery of such unit to original purchaser, be returned to us prepaid, and which our examination shall disclose to our satisfaction to have been thus defective.